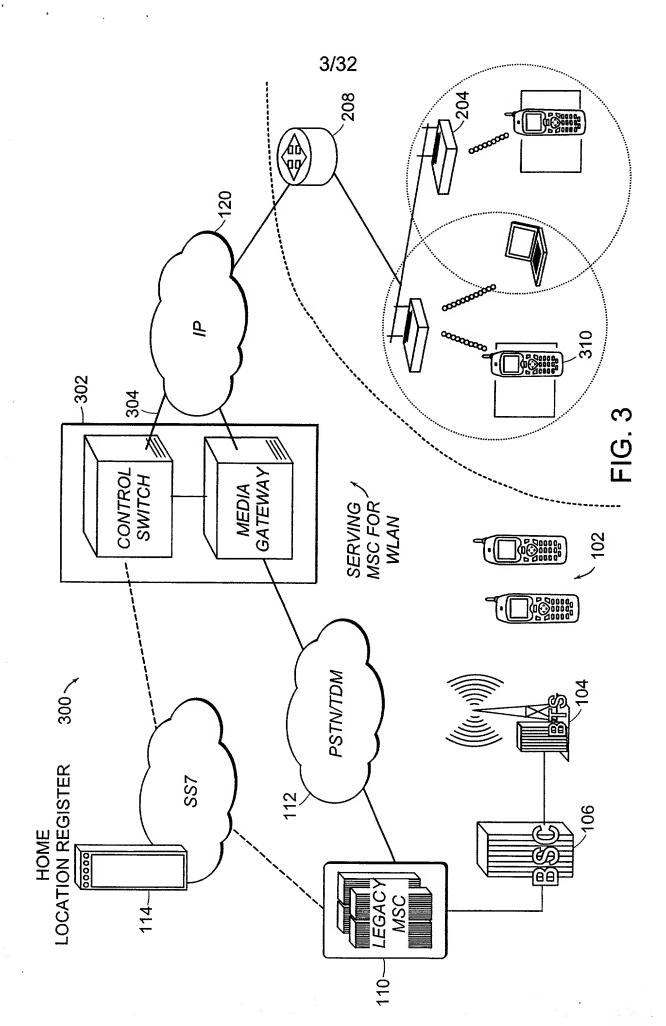
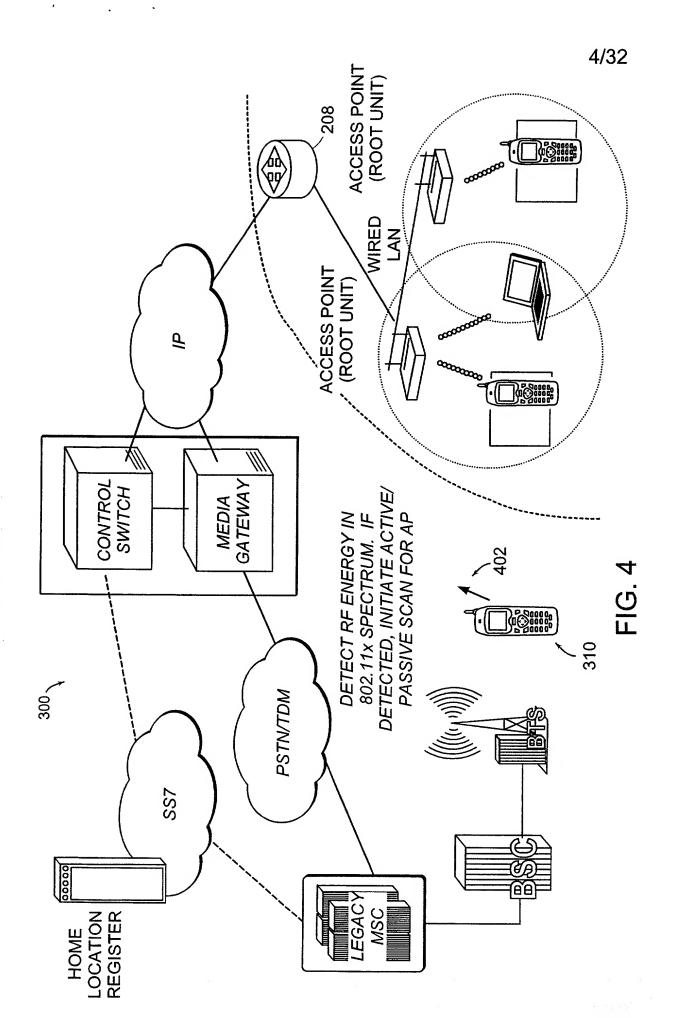
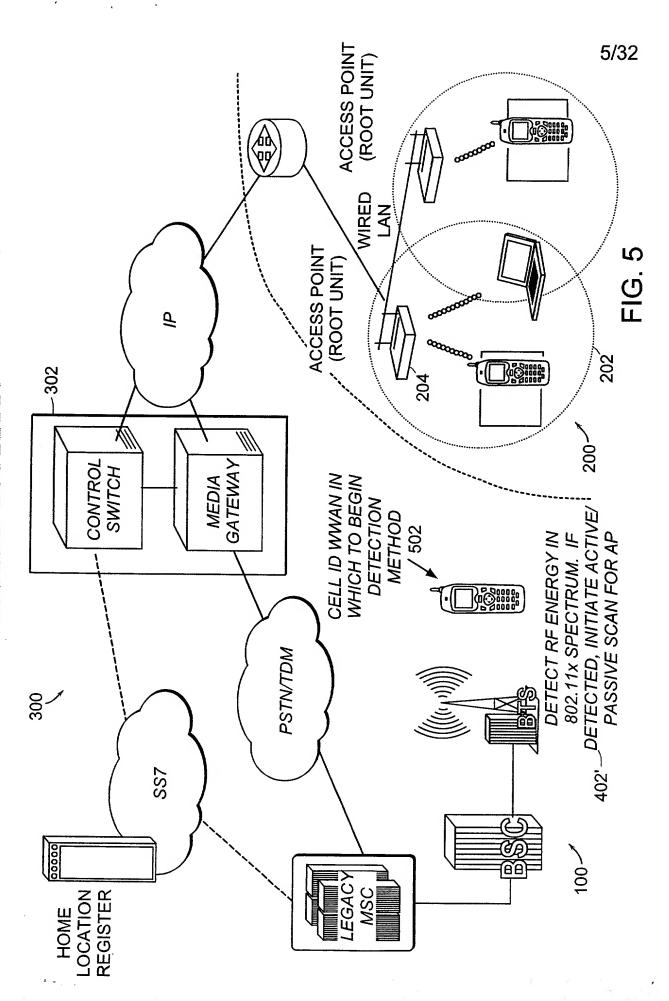
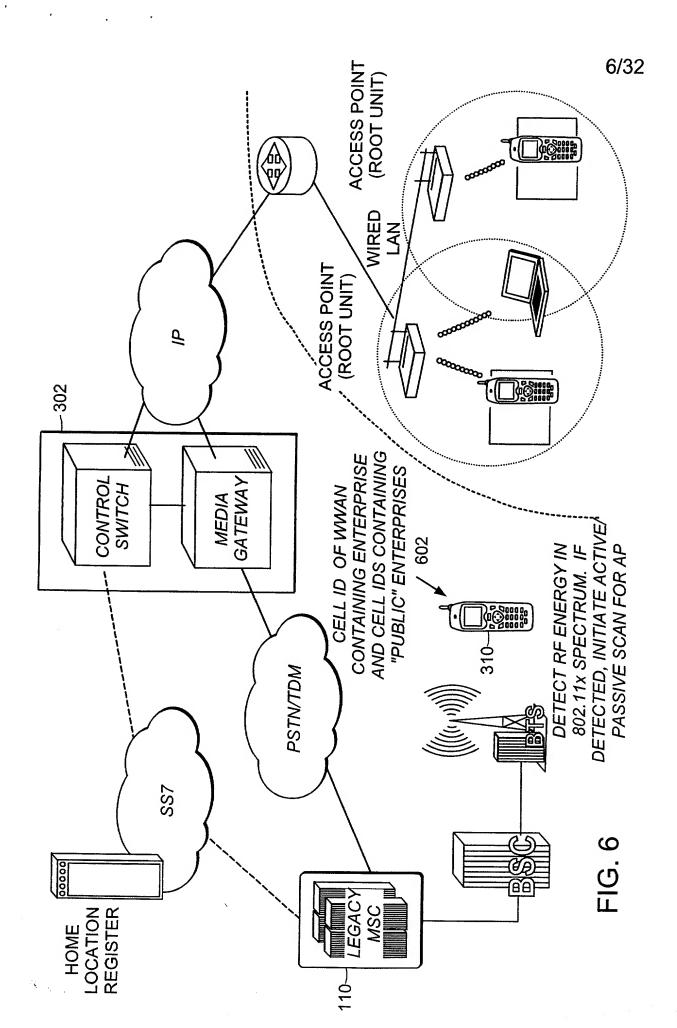


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WLAN MODEM

VoIP (SIP/RTP/UDP/IP)

GSM/UMTS

GSM/UMTS

MULTI-MODE PHONE

## the the true and and the true at the true

CDMA

MULTI-MODE PHONE

IS95/CDMA2000

WLAN MODEM

VoIP (SIP/RTP/UDP/IP)

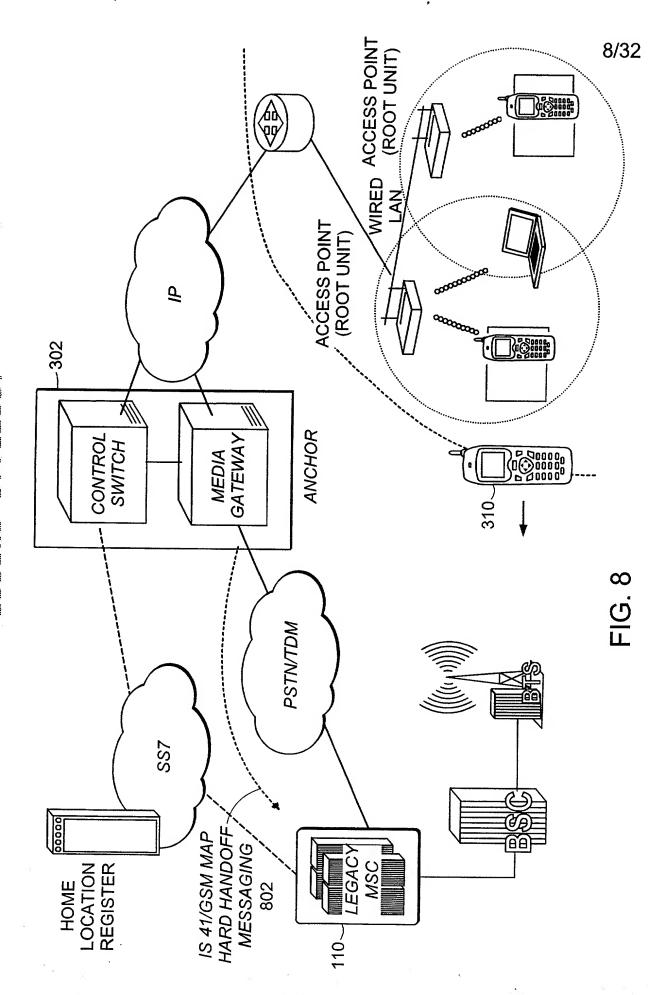
MOBILITY VIA PREFERRED EMBODIMENT CLIENT

SANYO
SANYO

MOBILITY VIA PREFERRED EMBODIMENT CLIENT

FIG. 7

310



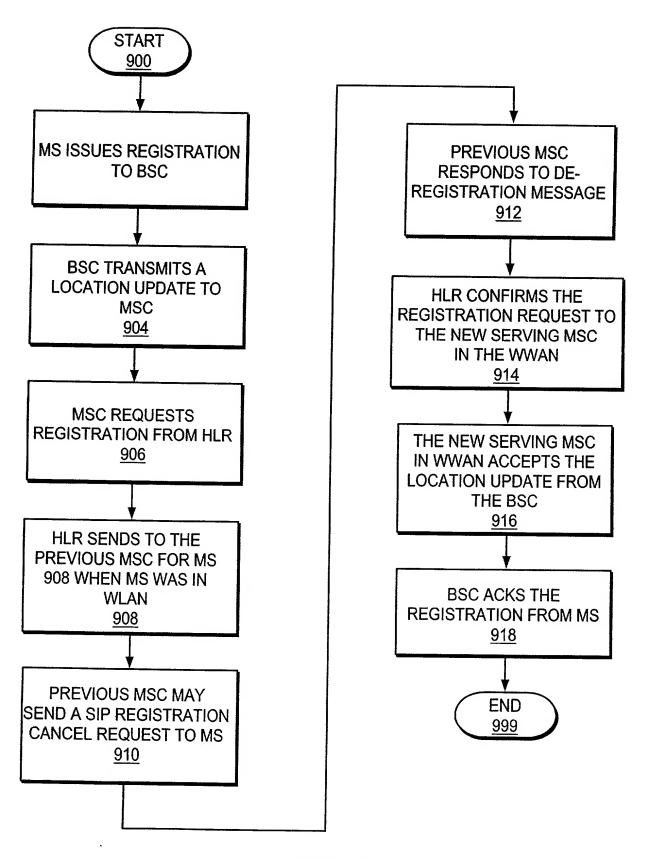


FIG. 9

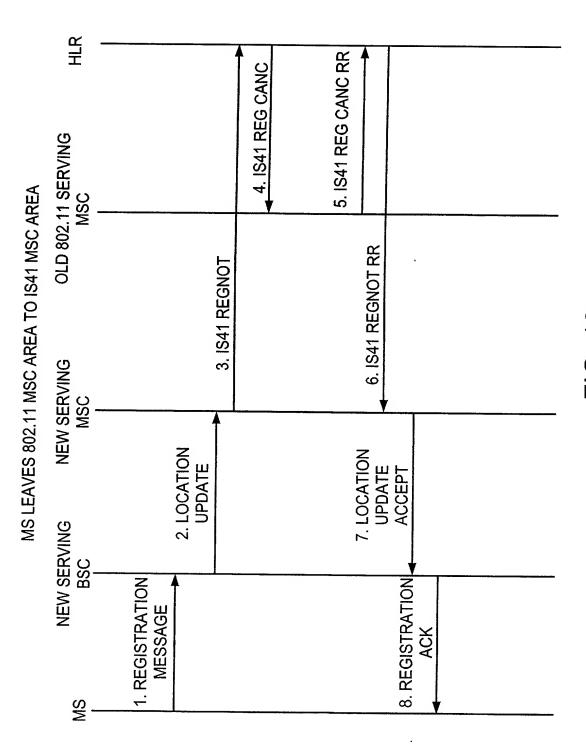


FIG. 10

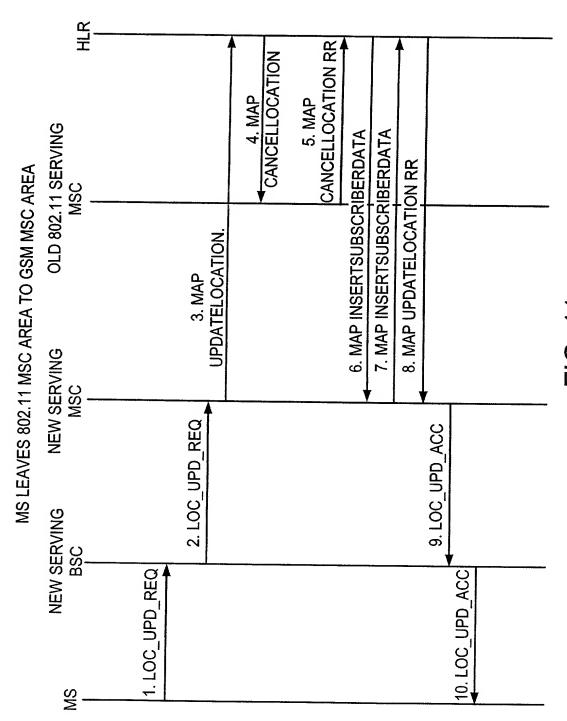


FIG. 11

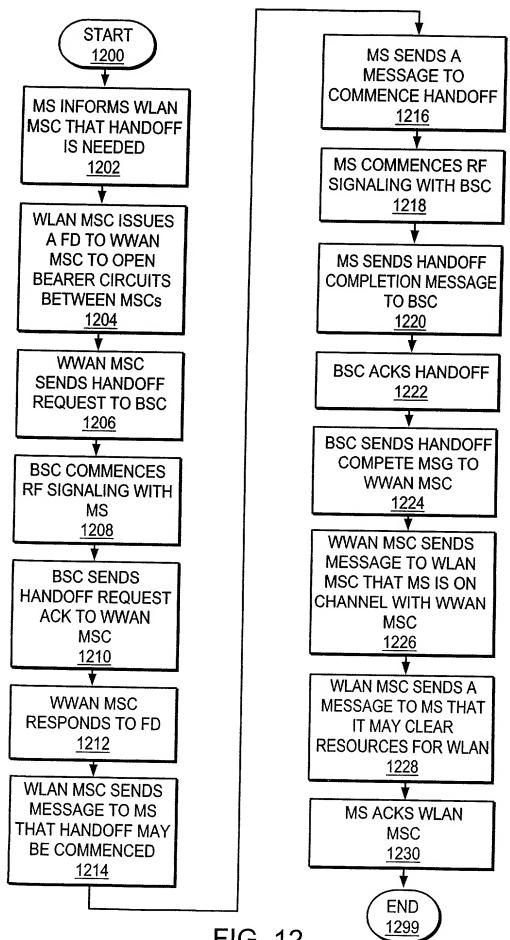


FIG. 12

BSC [TARGET] 5. HO REQUEST ACK 9. REVERSE TRAFFIC CHANNEL FRAMES 12. HO COMPLETE 11. BS ACK ORDER 3. HO REQUEST HARD HANDOFF FROM 802.11 MSC TO LEGACY IS41 MSC LEGACY MSC [TARGET] 6. FACDIR2-RR 13. MSONCH 2. FACDIR2 802.11 SERVING MSC [SOURCE] 15. SIP 200 OK (CLEAR COMPLETE) 14. SIP BYE (CLEAR COMMAND) 8. SIP INFO (HO COMMENCED) 4. NULL FORWARD TRAFFIC CHANNEL FRAMES 1. SIP INFO(HO REQUIRED) 7. SIP INFO (HO COMMAND) 10. HANDOFF COMPLETION MESSAGE SE W

FIG. 13

HARD HANDOFF FROM 802.11 MSC TO LEGACY GSM MSC

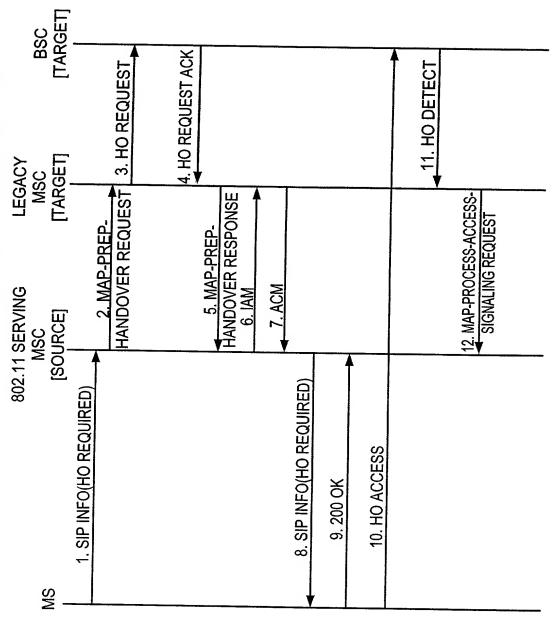
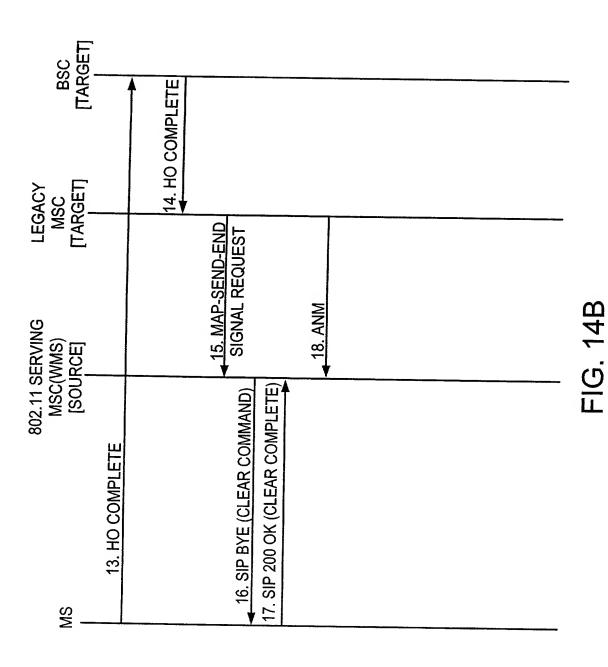


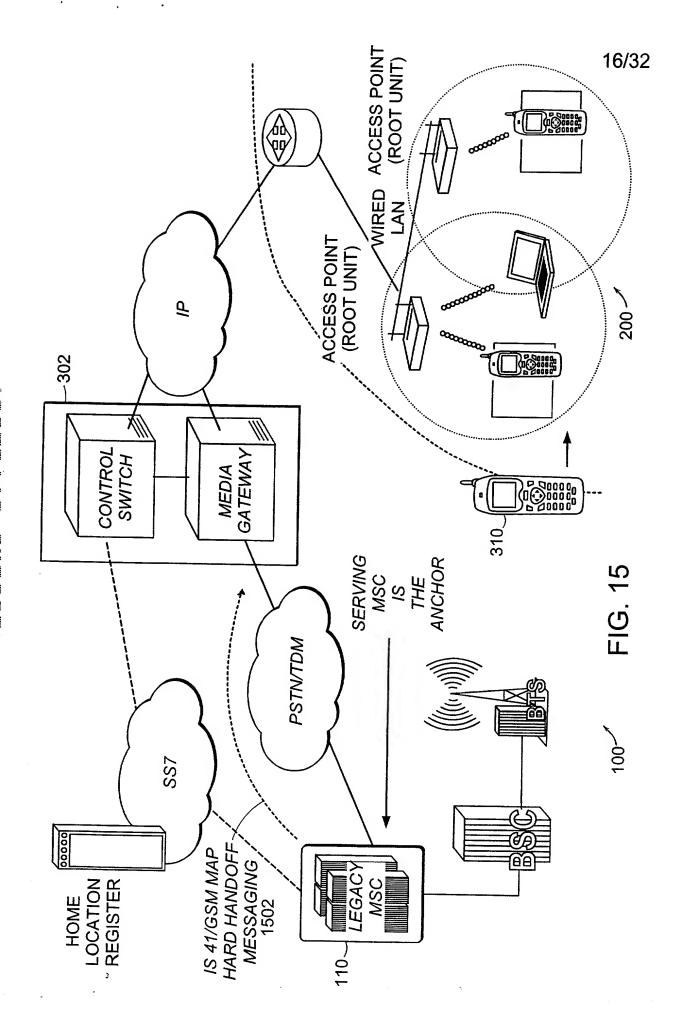
FIG. 14A

FIG. 14

FIG.14B

FIG. 14A





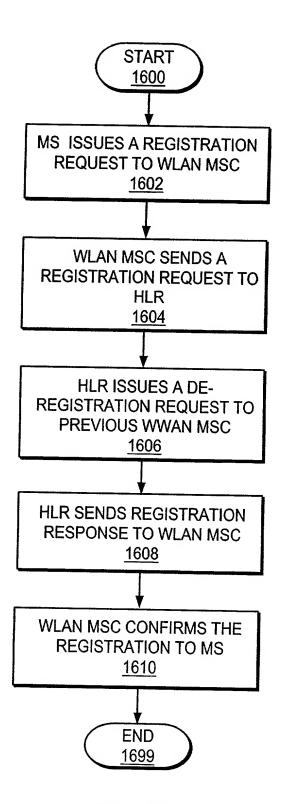
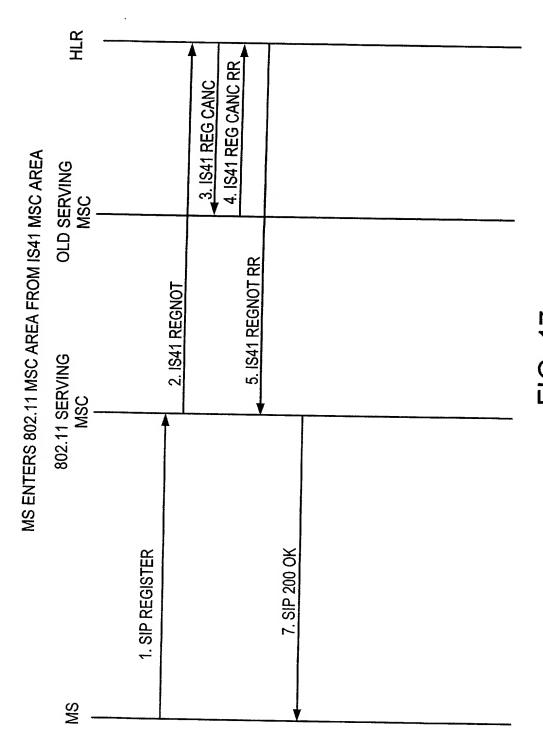
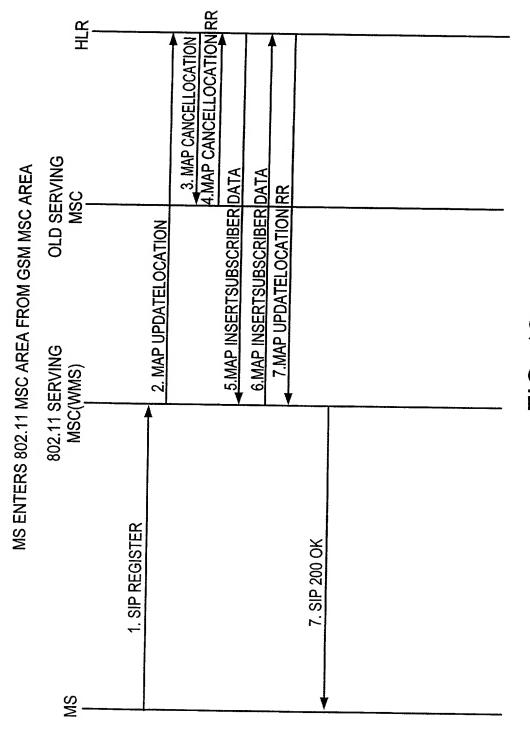


FIG. 16



-16. 1/



-IG. 18

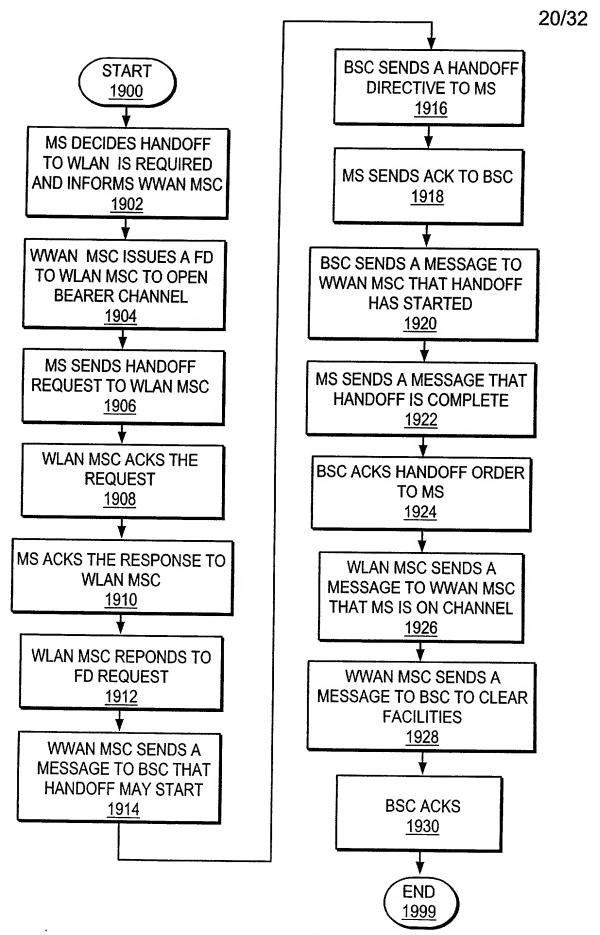


FIG. 19

802.11 SERVING MSC [TARGET] HARD HANDOFF FROM LEGACY IS41 MSC TO 802.11 MSC SIP INFO (HO COMPLETION MESSAGE) SIP INVITE (HO REQUEST) FACD182 FACDIR2-RR **MSONCH** SIP 200 OK SIP ACK MSC [SOURCE] CLEAR COMPLETE CLEAR COMMAND HO COMMENCED HO REQUIRED HO COMMAND BSC [SOURCE] HO DIRECTION MESSAGE MS ACK ORDER SM S

HARD HANDOFF FROM LEGACY GSM MSC TO 802.11 MSC

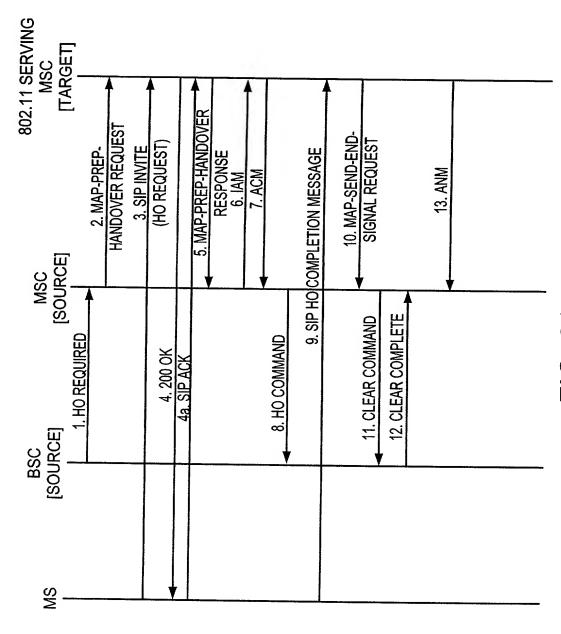
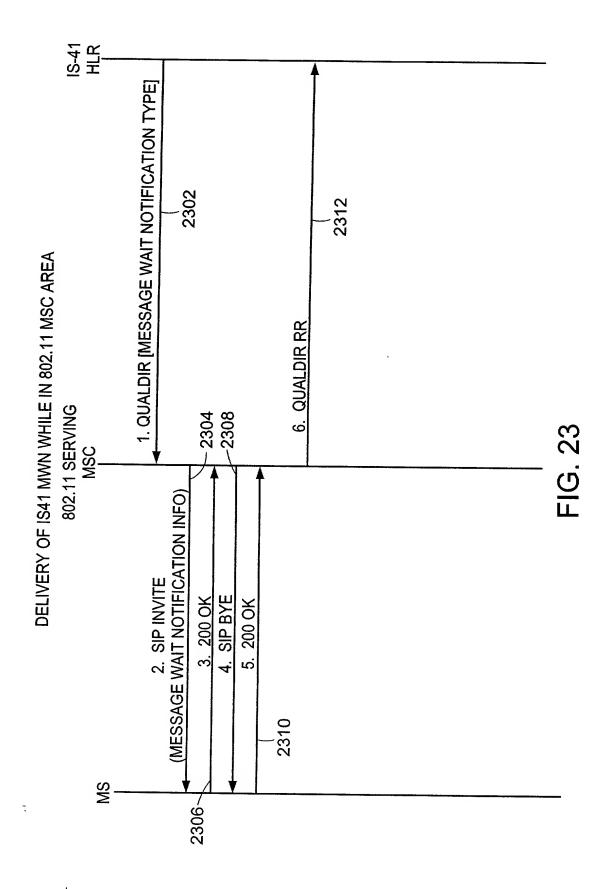
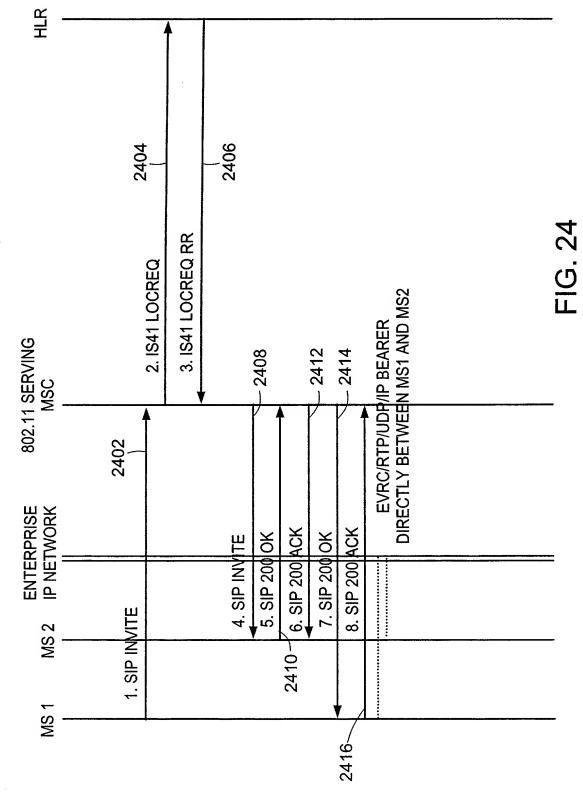


FIG. 21

IS-41 SMS-MC DELIVERY OF SHORT MESSAGE SERVICE IN 802.11 MSC AREA 2202 2212 4. SMDPP RR 1. SMDPP 802.11 SERVING - 2208 2204 2. SIP INVITE (SMS PAYLOAD) 3. 200 OK 4. SIP BYE 5. 200 OK MS



INTRA ENTERPRISE CALL (CDMA/IS41)



INTRA ENTERPRISE CALL (GSM/MAP)

HR 3. MAP SENDROUTINGINFO RR 2. MAP SENDROUTINGINFO? GSM EFR/RTP/UDP/IP BEARER DIRECTLY BETWEEN MS1 AND MS2 802.11 SERVING ENTERPRISE IP NETWORK 6. SIP ACK 7. SIP 200 OK 8. SIP 200 ACK 5. SIP 200 OK 4. SIP INVITE 1. SIP INVITE MS<sub>2</sub> MS<sub>1</sub>

ENTERPRISE TO PSTN CALL (CDMA/IS41)

-2618 -2614 PSTN SWITCH 64K PCM VOICE BETWEEN MEDIA GATEWAY AND PSTN SWITCH HR 2606 2604 802.11 SERVING MSC MEDIA GATEWAY 5. MGCP CRCX RESPONSE 2610 3. IS41 LOCREQ RR EVRC/RTP/UDP/IP BEARER
BETWEEN MS AND MEDIA GATEWAY 2. IS41 LOCREQ 4. MGCP CRCX 7. ISUP ACM 9. ISUP ANM 6. ISUP IAM 802.11 SERVING MSC CONTROL -2620 2608~ 2612~ ENTERPRISE IP NETWORK SIP 183 TRYING 10. SIP 200 OK 11. SIP AC 1. SIP INVITE ω. 2602 2616 MS<sub>1</sub>

FIG. 26

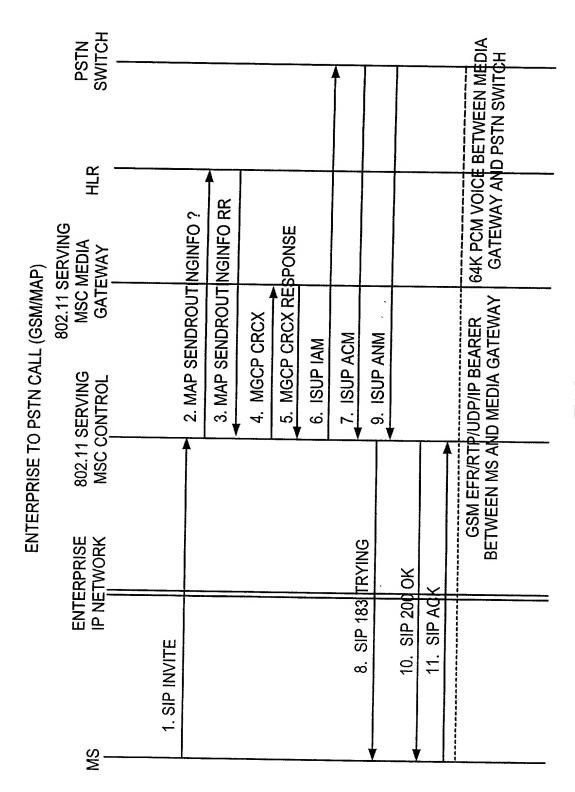
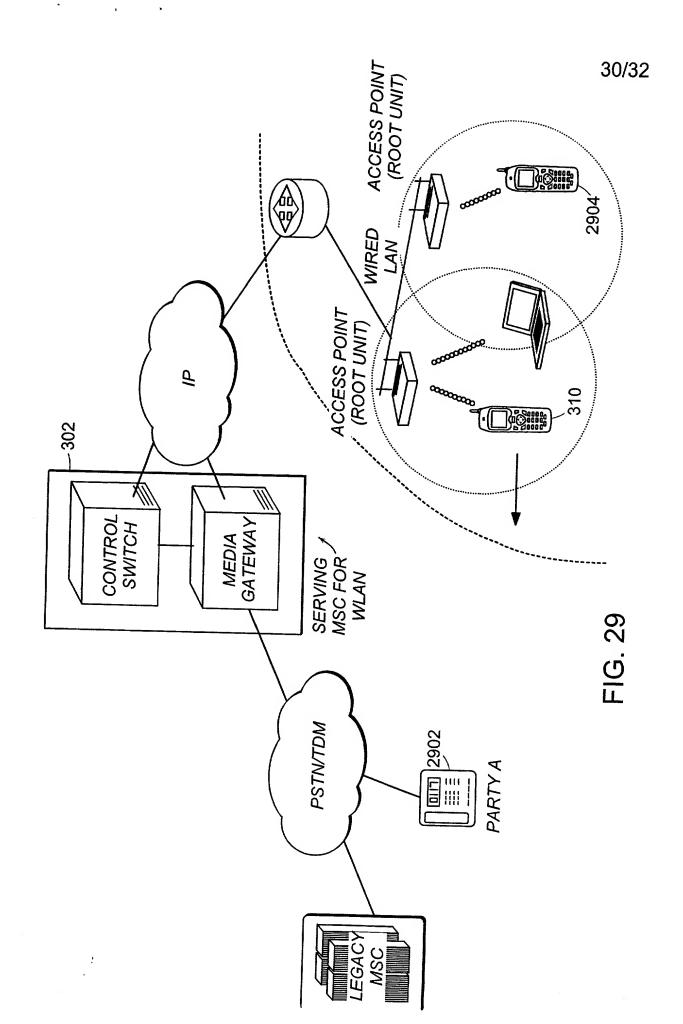


FIG. 27

ENTERPRISE TO MACRO GSM CALL WITH TFO (GSM/MAP)

29/32 4. MAP PROVIDEROAMINGNUMBER RR 2806 | 3. MAP PROVIDEROAMINGNUMBER MS<sub>2</sub> GSM EFR CARRIED IN 64K DSG AS A TFO CHANNEL BETWEEN MEDIA GATEWAY AND GSM SWITCH/RAN **GSM SERVING** -2822 -2818 808 MSC 6. MGCP CRCX (WITH TFO ON TRUNK SIDE) 표 2. MAP SENDROUTINGINFO 5. MAP SENDROUTINGINFO RR 7. MGCP CRCX RESPONSE **802.11 SERVING** -2814 **MSC MEDIA** GATEWAY **E**FTWEEN MS AND MEDIA GATEWAY 11. ISUP ANM 9. ISUP ACM 8. ISUP IAM GSM EFR/RTP/UDP/IP BEARER 802.11 SERVING MSC CONTROL 2824 2810 2804 2812 2816 ~ 10. SIP 18\$ TRYING ENTERPRISE IP NETWORK 2802 12. SIP \$00 OK 13. SIP ACK 1. SIP INVITE 2820 MS<sub>1</sub>

=1G. 28



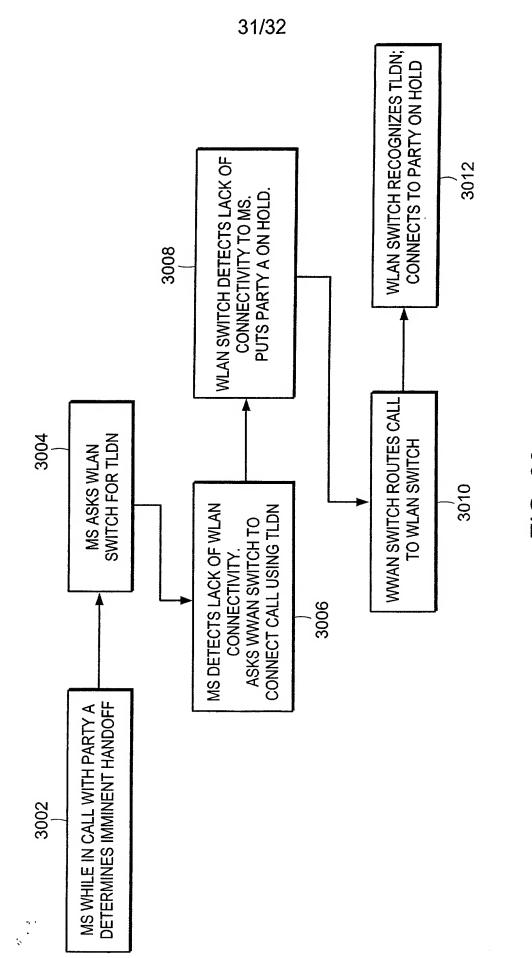


FIG. 3(

